SHARP®

MX-M503/M453/M363/M283

ADVANCED MONOCHROME WORKGROUP DOCUMENT SYSTEMS

Precision engineered to help increase workflow efficiency and provide exceptional image quality, Sharp's MX Monochrome Series workgroup document systems take you to the next level in MFP performance and productivity. A large, **high resolution touch-screen color display** with **graphical menu navigation** and a **full-size retractable keyboard** to simplify data entry are just two of the many advanced features offered by these models. The powerful true multi-tasking controller enables MX Monochrome Series users to save time and money while producing professional documents in-house—**robust performance** that is also economical. Sharp's advanced device management makes it easy to **control usage and costs**. With the latest **Sharp OSA®** development platform, integration with network applications has never been easier. And, to safeguard the confidentiality of your intellectual property, Sharp's industry leading security suite is second to none.

SHARP'S INNOVATIVE FEATURES

- A powerful **true multi-tasking** document system
- Large, **high resolution touch-screen** color display with graphical navigation (N models)
- Advanced second generation micro-fine toner technology offers crisp, **high quality images** page after page
- Standard 100-sheet duplex single pass document feeder with color **Scan²™** technology (N models)
- **1200 x 1200 dpi** printing provides clear, crisp images, even on jobs with fine detail (N models)
- Industry leading **ImageSEND™** function scans documents to USB devices, network folders, E-mail and more (N models)
- Standard PCL®6/PCL5e **printing system** with **direct print** function and available Postscript® 3™ and Windows® XPS options (N models)
- Supports Sharp's latest **award-winning** multi-level document and network **security suite**, which conforms to the new **IEEE-2600™- 2008 security standard** for MFP devices*
- **Environmentally-friendly design** offers low power consumption, long-life parts and is supported by Sharp's toner recycling program

Some features may require optional equipment.

Award-winning Retractable Keyboard Offers Added Convenience
For workgroups that perform a significant amount of data entry, the MX Monochrome Series document systems include a standard retractable keyboard (N models). Designed to simplify E-mail address and subject line entries, as well as repetitive scanning tasks and user authentication, the built-in keyboard offers users a familiar ergonomic interface.

The Flexibility and Performance You Need
With a large 8.5" (diagonally measured) **high-resolution touch-screen color display** (N models) and a powerful true **multi-tasking controller**, the MX-M503/M453/M363/M283 workgroup document systems can help elevate your office productivity to the next level.

Designed with a Strong Commitment to Protecting the Environment
The MX Monochrome Series document systems utilize Sharp's second generation micro-fine toner technology, which offers a lower consumption rate than conventional toners. This also results in less packaging material and longer replacement intervals. Additionally, all Sharp supplies are packaged using fully recyclable materials.

Reliability Your Business Can Depend On
Sharp's MX Monochrome workgroup document systems deliver professional performance and optimal productivity to satisfy your daily production needs. Copy/print **speeds up 50 ppm** help you to meet project deadlines with time to spare. The flexible paper handling system can feed up to 110 lb index stock through the paper trays. With available on-line paper capacity of up to 5,600 sheets, the MX Monochrome Series is ready when you are.

24/7 Training with My Sharp
Managing all of the advanced features of your Sharp product is simple and easy. Ask your Authorized Sharp Dealer about **My Sharp**. This dedicated customer training website is customized to your MX-M503/M453/M363/M283 and allows you to locate resources and find information specific to your configuration, truly helping you maximize your investment.

MX-M503/M453/M363/M283 SPECIFICATIONS

Main Specifications

MX-M503N/M453N/ M363N/M283N:	Includes 8.5" Color Display, Standard Copying, PCL6 Network Printing, Network Color Scanning, Document Filing, 100-sheet DSPF (except MX-M283N), Auto Duplex, 2 x 500-sheet Paper drawers, 100-sheet Bypass tray & 80GB Hard Drive.
MX-M503U/M453U/ M363U:	Includes 8.1" Mono Display, Standard Copying, 100-Sheet RSPF, Auto Duplex, 2 x 500-sheet paper drawers, 100-sheet Bypass tray
Type	Multi-Function digital document system
Functions	Copy, print, network print, network scan, document filing and fax[2]
Copy System	Dry electrostatic transfer/Dual component developer/Magnetic brush development/OPC drums/Heat Roller fusing/Xenon lamp exposure
Originals	Sheets and bound documents
Max Original Size	11" x 17"
Copy Size	Min. 5 ½" x 8 ½", Max. 11 "x 17"
Copy Speed	MX-M503N/U 50 ppm; MX-M453N/U 45 ppm; MX-M363N/U 36 ppm; MX-M283N 28 ppm (8 ½" x 11")
Multiple Copy	Max. 999 copies

First Copy Time (Seconds)[3]	MX-M503	MX-M453	MX-M363	MX-M283
Platen Glass	3.9 sec	3.9 sec	4.6 sec	4.6 sec
RSPF	9.3 sec	9.3 sec	10.1 sec	10.1 sec
DSPF	8.8 sec	8.8 sec	9.5 sec	—

Warm Up Time	20 Seconds or less[3]
Magnification	25% to 400% in 1% increments (RSPF/DSPF 25%-200%)
Original Feed	100-Sheet RSPF: MX-M503U/M453U/M363U/M283N 100-Sheet DSPF: MX-M503N/M453N/M363N
Scan Speed	RSPF Copy: Up to 50 IPM @ 600 x 400 dpi; 36 IPM @ 600 x 600 dpi / DSPF Copy: Up to 70 IPM @ 600 x 300 dpi. RSPF Scan: Up to 50 IPM @ 200 x 200 dpi / DSPF Scan: Up to 70 IPM @ 200 x 200 dpi.
Original Sizes	5 ½" x 8 ½", 8 ½" x 11", 8 ½" x 11" R, 8 ½" x 14", 11" x 17"
Paper Feed System	Standard: (2) 500-sheet drawers (letter/legal/ledger/statement) and 100-sheet bypass tray (letter/legal/ledger/statement/envelope). Optional: (1) 500-sheet paper drawer (letter/legal/ledger/statement size) or (2) 500-sheet paper drawers (letter/legal/ledger/statement size) and 3500-sheet large capacity tray (letter size).
Paper Types	Paper drawers/Bypass tray: 16 lb. bond -110 lb. index; other paper types include plain, pre-printed, recycled, pre-punched, letterhead and color paper. Bypass tray also supports: 13-16 lb. bond (thin paper), 20-24 lb. bond (Monarch/Com-10 envelope), tab paper (letter size only); other types include label paper and OHP film. Large capacity tray: 16-28 lb. bond.
Duplexing	Standard automatic duplex copying and printing
CPU	MX-M503/M453: 667 MHZ, MX-M363/M283: 533 MHZ
Interface	RJ-45 Ethernet (10/100/1000Base-T), USB 2.0 host/device
Memory	Copy: 640MB (320MB U models); Print/scan: 1GB
Hard Disk Drive	80GB; 38GB for document filing system (N models)
Copy Resolution	Scan: B&W/color: 600 dpi; Copy Output: B&W: 1200 dpi (N models)
Exposure Control	Modes: Automatic Text, Text/Photo, Text/Printed-Photo, Printed-Photo, Photo, Map. Settings: auto or 9 step manual.
Halftone	256 gradations/2 levels (monochrome)
Copy Features	Scan-Once Print-Many, electronic sorting, offset-stacking, Auto Paper Sensing (APS), Auto Magnification Sensing (AMS), auto tray switching, rotation copy, reserve copy, tandem copy, book copy, margin shift, tab-paper insertion, edge erase, center erase, dual page copy, cover pages, insert pages, OHP insertion, job build, card shot, multi-page enlargement, reverse image, black-white reversal, centering, proof copy, 2-in-1/4-in1, pamphlet, photo repeat, document filing, account management, job programs, date/character/page stamp.
Account Control	Up to 1000 users. Supports user-number authentication (on device), login name/password (on device) or login name/password (on device via LDAP server) for Copy, Print, Scan, Fax and document management.
Output Tray Capacity	Main output tray (top) 400 sheets (face down); optional exit tray (right side) 100 sheets (face down)
Firmware	Flash ROM with local (USB) and network update capability.
Configuration Method	Web-based management system with user/administrator level login security, cloning (1 to N) with PAU and remote front panel access
Service/Maintanence	Remote front panel and remote service logs
Power	AC 100-127 VAC, 60Hz, 12 Amps
Power consumption	All models Approx. 1.44kW
Weight	All models Approx. 210 lbs.
Dimensions	All models Approx. 25 ½" (w) x 27 ½" (d) x 38" (h)

Network Printing System (standard on N models)

PDL	PCL® 6/PCL5e compatible, Optional Postscript®3™, optional XPS
Resolution	1200 dpi x 1200 dpi (N models), 600 dpi x 600 dpi (U models)
Print Speed	28/36/45/50 pages per minute depending on model (8½"x 11")
Print Drivers	Windows® 7, X64, Windows 8, x64, Windows Server® 2003, Windows Server 2008, Windows XP, Windows XP x64, Windows Server 2003 x64, Windows Server 2008 x64, Windows Vista™, Windows Vista x64, MAC OS®, 9.2.2, OS-X (including 10.2.8, 10.3.9, 10.4.11, 10.5-10.5.5), all MAC PPD, UNIX, Linux.[1]
Features	Continuous printing, duplex printing, pamphlet printing, N-up printing, image rotation, different cover page/last page, transparency inserts, tab printing, carbon copy print mode, fit-to-page, poster print, margin shift, mirror image, watermarks, overlay, confidential print, confidential batch print, print hold, proof print, bypass printing, job priority printing, print job control, tandem printing and direct printing[1]
Direct Printing	File Types: TIFF, JPEG, PCL, PRN, TXT, PDF, Encrypted PDF, High Compression PDF, Postscript and XPS[2] Methods: FTP, Web page, E-mail and USB memory
Resident Fonts	80 outline fonts
Interface	RJ-45 Ethernet 10/100/1000 Base-T
Network Environments	Windows XP, 2003/2008 Server 2012 x64, Vista, Novell® Netware® 3x to 6x, MAC OS 9, OSX 10 to 10.5.6), Sun® OS 4.1x, Solaris® 2x, UNIX®, Linux®, SAP, AS400, Citrix® (Metaframe, Presentation Server 4, 4.5) and Windows Terminal Services.
Network Protocols	TCP/IP (IPv4, IPv6, IPSEC) SSL (HTTP, IPP, FTP), SNMPv3, 802.1x for Windows and UNIX. LPD and LPR for UNIX. IPX/SPX® (Novell environments). EtherTalk® and NetBEUI. AppleTalk® (Macintosh®).
Printing Protocols	LPR, IPP, IPPS, PAP, Raw TCP (port 9100), FTP and Novell Pserver/Rprinter
Network Security	IP/Mac address filtering, protocol filtering, port management, user authentication and document administration.
Security Standards	IEEE-2600-2008, DoD (NSTISSP) #11, DoD 8500.2, DoD (DISA)[1]

Network Scanning System (standard on N models)

Max Original Size	11" x 17"
Optical Resolution	600 dpi
Output Modes	600 dpi, 400 dpi, 300 dpi, 200 dpi, 100 dpi
Scan Modes	Color, monochrome, grayscale
Image Formats	Monochrome: TIFF, PDF, Encrypted PDF, XPS[1] Color (N models only): Grayscale, Color TIFF, JPG, PDF, Encrypted PDF, High Compression PDF,[2] XPS[2]
Image Compression	Monochrome Scanning: Uncompressed, G3 (MH), G4 (MR/MMR) Color/Grayscale (N models only): JPG (high, medium, low), High Compression PDF[1], Internet FAX mode: MH/MMR (option)
Scan Destinations	E-mail, Desktop, FTP, Folder (SMB), USB, Internet/G3 fax (options)
One-touch Dial	Up to 1000 (combined scan destinations)
Group Destinations	Up to 500
Programs	Up to 48 (combined)
Max. Jobs in Memory	Up to 94 (N models), up to 47 (U models)
Network Protocols	TCP/IP, SSL (HTTP, SMTP, LDAP, FTP, POP3), SMB, ESMTP, 802.1x
Network Security	E-mail server user authentication for LDAP and Active Directory
Software	Sharpdesk® document management software (1 user license)
Sharp OSA Platform	Application Communication Module (MX-AMX2) Standard

B&W Super G3 Fax Kit (option)

Transmission Mode	Super G3, G3
Modem Speed	33.6 KBPS[3]
Compression	JBIG, MMR, MR, MH
Scanning Method	Sheet fed simplex or duplex or book
TX Resolution	400 dpi (max.)
Transmit Speed	Approximately 2 Seconds with Super G3/JBIG[4]
Auto Dialing	Up to 1000 (combined scan destinations)
Group Dial	Up to 500
Inbound Routing	Forwards received fax data to E-mail
Long length Originals	Up to 31.5" (for transmission)
Programs	Up to 48 (combined)
Memory	8 (exclusive)
Halftone	256 levels
Features	Quick on-line transmission, direct transmission, F-Code transmission/reception, rotate transmission, anti-junk fax, staple received faxes, secure fax release, out of paper reception, auto redial, 2-in-1 reception, duplex reception TX reports, and PC fax.

Inner Finisher (option)

Type	Built-in finisher (hole-punch unit option)
Output Capacity	500 sheets (letter/statement) or 250 sheets (ledger/legal size)
Stapling Media	Plain paper, (letter, legal, or ledger size)
Stapling Positions	1 front, 1 rear, or both
Power Source	Supplied from main unit
Stapling	Up to 50 sheets (letter size) or 30 sheets (legal, ledger or mixed)
Stapled Sets	30 bundles or 500 sheets (letter or statement size) or 30 bundles or 250 sheets (legal or ledger size)
Hole Punching	Optional hole punch unit MX-PNX1B (2 holes/3 holes)
Weight	Approx: 28.7 lbs.
Dimensions	25 ¼" (w) x 29" (d) x 8 ¼" (h) (with tray extended)

Saddle Stitch Finisher (option)

Type	Console finisher with dual exit trays (mounts on left side)
Output Trays	Upper tray: Offset stack tray Lower tray: Book tray for saddle stitch
Output Capacity	1000 sheets (letter/statement size) or 500 sheets (legal, ledger or letter-R size)
Stapling	Up to 50 sheets (letter/statement), 25 sheets (legal, ledger, mixed)
Output Delivery	Face down
Stapling Media	Plain paper, letter/legal/ledger size or mixed
Stapling Positions	1 front, 1 rear, or both
Saddle Stitch Function	Center stitch/folding (2 staples) letter/legal/ledger paper sizes. Up to 10 sets (11-15 sheets per set)/15 sets (6-10 sheets per set)/20 sets, Max. Sets (1-5 sheets per set).
Power Consumption	70 W or less
Hole Punching	Optional hole punch unit MX-PNX5B (2 holes/3 holes)
Weight	Approx: 88.18 lbs.
Dimensions	26" (w) x 25" (d) x 39" (h) (with tray extended)

4K Stacking Finisher

Type	Console stacking finisher with dual exit trays
Output Trays	Fixed position upper tray and offset stacking lower tray
Output Capacity	Upper tray: 1,550 sheets (letter size, non-stapled) Lower tray: 2,450 sheets (letter size, non-stapled)
Stapling	Three position; Up to 50 sheets (letter size)
Hole punching	Optional punch unit MX-PNX6B (2 hole/3 hole)
Power Consumption	Approx: 140W
Weight	Approx: 97 lbs.
Dimensions	Approx: 20 ½" (w) x 25 ½" (d) x 43 ½" (h)

Optional Equipment

MX-DEX8	Stand/1 x 500 Sheet Paper Drawer
MX-DEX9	Stand/2 x 500 Sheet Paper Drawer
MX-50ABD	Rolling Cabinet Base
MX-LCX1	Large Capacity Tray (requires MX-DEX8 or MX-DEX9)
MX-FNX9	Inner Finisher
MX-FN10	Saddle Stitch Finisher
MX-FN11	4K Stacking Finisher
MX-RBX3	Paper Pass Unit (Required for MX-FN10 or MX-FN11)
MX-PNX1B	3 Hole Punch Unit (for Inner Finisher)
MX-PNX5B	3 Hole Punch (for Saddle Stitch Finisher)
MX-PNX6B	3 Hole Punch Unit (for 4K Stacking Finisher)
MX-TRX2	Exit Tray Unit
MX-PB10	Printer Expansion Kit (U models)
MX-PB11	Printer Expansion Kit with Hard Drive (U models)
MX-PKX1	Postscript 3 Kit[1]
MX-PUX1	XPS Expansion Kit (Requires MX-SHP1GBXPS)
MX-SHP1GBXPS	1GB Memory Upgrade (Required for MX-PUX1)
MX-EBX3	Enhanced Scanner Compression Kit (N models only)
MX-FWX1	Internet Fax Kit[1]
MX-FXX2	Fax Expansion Kit
AR-PF1	Bar Code Font Kit[1]
MX-AMX1	Application Integration Module[1]
MX-AMX2	Application Communication Module[1]
MX-AMX3	External Accounting Module[1]
MX-NSX1	Network Scanner Expansion Kit
MX-FR23U	Commercial Data Security Kit for models with Hard Disk Drive
MX-FR15U	Commercial Data Security Kit for models w/o Hard Disk Drive

Supplies

MX-500NT	Black Toner Cartridge
MX-500NV	Black Developer
MX-500NR	Drum

[1] Some features may require optional equipment.
[2] May vary depending on product configuration, machine settings and operating and/or environmental conditions.
[3] Actual transmission speed and time will vary based on line conditions
[4] Based on Sharp Standard Test Chart with approximately 700 characters, letter size in standard resolution.

ImageSEND | OSA® Sharp Open Systems Architecture | My Sharp™ | ENERGY STAR

SHARP®

SHARP ELECTRONICS CORPORATION
Sharp Plaza, Mahwah, NJ 07495-1163
1-800-BE-SHARP • www.sharpusa.com

Design and Specifications subject to change without notice. Sharp, Sharp OSA, Sharpdesk, My Sharp and all related trademarks are trademarks or registered trademarks of Sharp Corporation and/or its affiliated companies. Windows, Windows NT, Windows Server and Windows Vista are trademarks or registered trademarks of Microsoft Corporation. All other trademarks are the property of their respective owners.

©2013 Sharp Electronics Corporation. All rights reserved.

05/13